



Express Mail Label: EV 328186731 US  
Date of Deposit: October 7, 2004

Page 1 of 3  
Attorney Docket No.: 23239-544

Please type a plus sign (+) in this box



|  |                               |                  |
|--|-------------------------------|------------------|
| <b>Modified Form 1449/PTO</b><br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(use as many sheets as necessary) | <b>Application Number</b>     | 10/729,581       |
|  | <b>Filing Date</b>            | December 3, 2003 |
|  | <b>First Named Inventor</b>   | Keefe            |
|  | <b>Group Art Unit</b>         | 1645             |
|  | <b>Examiner Name</b>          | Not Yet Assigned |
|  | <b>Attorney Docket Number</b> | 23239-544        |

| U.S. PATENT DOCUMENTS |          |                          |            |                                     |       |           |                            |
|-----------------------|----------|--------------------------|------------|-------------------------------------|-------|-----------|----------------------------|
| Exam Initials         | Cite No. | U.S. Patent Document No. | Issue Date | Name of Patentee(s) or Applicant(s) | Class | Sub Class | Filing Date If Appropriate |
| JF                    | A1       | 3,710,795                | 01/16/73   | Higuchi et al.                      | 128   | 260       |                            |
|                       | A2       | 5,262,564                | 11/16/93   | Kun et al.                          | 562   | 430       |                            |
|                       | A3       | 5,270,163                | 12/14/93   | Gold et al.                         | 435   | 6         |                            |
|                       | A4       | 5,475,096                | 12/12/95   | Gold et al.                         | 536   | 23.1      |                            |
|                       | A5       | 5,567,588                | 10/22/96   | Gold et al.                         | 435   | 6         |                            |
|                       | A6       | 5,580,737                | 12/03/96   | Polisky et al.                      | 435   | 6         |                            |
|                       | A7       | 5,582,981                | 12/10/96   | Toole, et al.                       | 435   | 6         |                            |
|                       | A8       | 5,589,332                | 12/31/96   | Shih et al.                         | 435   | 6         |                            |
|                       | A9       | 5,637,459                | 06/10/97   | Burke et al.                        | 435   | 6         |                            |
|                       | A10      | 5,648,214                | 07/15/97   | Nieuwlandt et al.                   | 435   | 6         |                            |
|                       | A11      | 5,660,985                | 08/26/97   | Pieken et al.                       | 435   | 6         |                            |
|                       | A12      | 5,668,265                | 09/16/97   | Nadeau, et al.                      | 536   | 23.1      |                            |
|                       | A13      | 5,672,695                | 09/30/97   | Eckstein et al.                     | 536   | 24.5      |                            |
|                       | A14      | 5,683,867                | 11/04/97   | Biesecker et al.                    | 435   | 6         |                            |
|                       | A15      | 5,698,687                | 12/16/97   | Eckstein et al.                     | 536   | 25.3      |                            |
|                       | A16      | 5,705,337                | 01/06/98   | Gold et al.                         | 435   | 6         |                            |
|                       | A17      | 5,707,796                | 01/13/98   | Gold et al.                         | 435   | 6         |                            |
|                       | A18      | 5,756,291                | 05/26/98   | Griffin, et al.                     | 435   | 6         |                            |
|                       | A19      | 5,763,177                | 06/09/98   | Gold et al.                         | 435   | 6         |                            |
|                       | A20      | 5,817,635                | 10/06/98   | Eckstein et al.                     | 514   | 44        |                            |
|                       | A21      | 5,834,186                | 11/10/98   | George, et al.                      | 435   | 6         |                            |
|                       | A22      | 5,840,867                | 11/24/98   | Toole, et al.                       | 536   | 23.1      |                            |
|                       | A23      | 5,858,660                | 01/12/99   | Eaton et al.                        | 435   | 6         |                            |
|                       | A24      | 5,859,228                | 01/12/99   | Janjic et al.                       | 536   | 24.3      |                            |
|                       | A25      | 5,958,691                | 09/28/99   | Pieken et al.                       | 435   | 6         |                            |
|                       | A26      | 6,011,020                | 01/04/00   | Gold et al.                         | 514   | 44        |                            |
|                       | A27      | 6,051,698                | 04/18/00   | Janjic et al.                       | 536   | 24.31     |                            |
|                       | A28      | 6,107,037                | 08/22/00   | Sousa et al.                        | 435   | 6         |                            |
| JF                    | A29      | 6,300,074 B1             | 10/09/01   | Gold et al.                         | 435   | 6         |                            |

| FOREIGN PATENT DOCUMENTS                          |          |  |              |   |                     |                    |
|---|----------|--|--------------|---|---------------------|--------------------|
| Exam Initials                                     | Cite No. | Foreign Patent Document Office   | Number       | Name of Patentee(s) or Applicant(s)                     | Date of Publication | Translation Yes No |
| JF  | B1       | WO   | 92/07065     | MAXPLANCK-GESELLSCHAFT ZUR FÖRDERUNG DER WISSENSCHAFTEN | 04/30/92            |                    |
|   | B2       | WO   | 98/08974     | INTELLIGENE LTD.  | 03/05/98            |                    |
|   | B3       | WO   | 98/18480     | NEXSTAR PHARMACEUTICALS, INC.                           | 05/07/98            |                    |
|   | B4       | WO   | 98/27104     | YALE UNIVERSITY   | 06/25/98            |                    |
|   | B5       | WO   | 99/31276     | NEXSTAR PHARMACEUTICALS, INC.                           | 06/24/99            |                    |
|   | B6       | WO   | 00/70329     | BRANDEIS UNIVERSITY                                     | 11/23/00            |                    |
|   | B7       | WO   | 01/66721 A2  | RIBOZYME PHARMACEUTICALS, INC.                          | 09/13/01            |                    |
|   | B8       | WO   | 02/22882 A2  | ARCHEMIX CORPORATION                                    | 03/21/02            |                    |
| JF  | B9       | WO   | 03/014375 A2 | ARCHEMIX CORPORATION                                    | 02/20/03            |                    |
| OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS |          |  |              |   |                     |                    |
| Exam Initials                                     | Cite No. | Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.   |              |   |                     |                    |
| JF  | C1       | Bock et al. <i>Nature</i> , 355:564-566 (1992)   |              |   |                     |                    |
|   | C2       | Breaker R.R. <i>Curr. Opin. Biotech.</i> , 7:442-448 (1996)  |              |   |                     |                    |
|   | C3       | Breaker R.R. <i>Chem. Rev.</i> , 97:371-390 (1997)   |              |   |                     |                    |
|   | C4       | Breaker R.R. <i>Curr. Opin. Chem. Biol.</i> , 1:26-31 (1997)   |              |   |                     |                    |
|   | C5       | Breaker R.R. <i>Nat. Biotech.</i> , 15:427-431 (1997)  |              |   |                     |                    |
|   | C6       | Breaker R.R. <i>Intracellular Ribozyme Applications in Principles and Protocols</i> , pgs. 1-19; Horizon Scientific Press, Wymondham UK, Rossi and Couture, eds., (1999) |              |   |                     |                    |
|   | C7       | Breaker R.R. <i>Curr. Opin. Biotech.</i> , 13:31-39 (2002)   |              |   |                     |                    |
|   | C8       | Briebe et al. <i>Biochem.</i> , 39:919-923 (2000)  |              |   |                     |                    |
|   | C9       | Carmi et al. <i>Chem. &amp; Biol.</i> , 3:1039-1046 (1996)   |              |   |                     |                    |
|   | C10      | Cotten et al. <i>Nucl. Acids Res.</i> , 19(10):2629-2635 (1991)  |              |   |                     |                    |
|   | C11      | DeAnda et al. <i>Ann. Thorac. Surg.</i> , 58:344-350 (1994)  |              |   |                     |                    |
|   | C12      | Froehler et al. <i>Nucl. Acids Res.</i> , 14(13):5399-5407 (1986)  |              |   |                     |                    |
|   | C13      | Froehler et al. <i>Tet. Lett.</i> , 27(46):5575-5578 (1986)  |              |   |                     |                    |
|   | C14      | Gold L. <i>Nat. Biotech.</i> , 20: 671-672 (2002)  |              |   |                     |                    |
|   | C15      | Graham et al. <i>Nucl. Acids Res.</i> , 21(16):3737-3743 (1993)  |              |   |                     |                    |
|   | C16      | Griffin et al. <i>Blood</i> , 81(12):3271-3276 (1993)  |              |   |                     |                    |
|   | C17      | Hamaguchi et al. <i>Anal. Biochem.</i> , 294:126-131 (2001)  |              |   |                     |                    |
|   | C18      | Hartig et al. <i>Nat. Biotech.</i> , 20:717-722 (2002)   |              |   |                     |                    |
|   | C19      | Hirose et al. <i>Tet. Lett.</i> , 28:2449-2452 (1978)  |              |   |                     |                    |
|   | C20      | Hobbs et al. <i>Biochem.</i> , 12(25):5138-5145 (1973)   |              |   |                     |                    |
|   | C21      | Jenne et al. <i>Nat. Biotech.</i> , 19:56-61 (2001)  |              |   |                     |                    |
|   | C22      | Koizumi et al. <i>Nucl. Acids Symp. Ser.</i> , 42:275-276 (1999)   |              |   |                     |                    |
|   | C23      | Koizumi et al. <i>Nat. Struct. Biol.</i> , 6(11):1062-1071 (1999)  |              |   |                     |                    |
|   | C24      | Lee et al. <i>Pharmac. Res.</i> , 12(12):1943-1947 (1995)  |              |   |                     |                    |
| JF  | C25      | Li et al. <i>Blood</i> , 83(3):677-682 (1994)  |              |   |                     |                    |

| FOREIGN PATENT DOCUMENTS |             |   |                                     |                        |                       |
|--------------------------|-------------|---|-------------------------------------|------------------------|-----------------------|
| Exam<br>Initials         | Cite<br>No. | Foreign Patent Document<br>Office Number  | Name of Patentee(s) or Applicant(s) | Date of<br>Publication | Translation<br>Yes No |
| JF                       | C26         | Li et al. <i>Curr. Opin. Struct. Biol.</i> , 9:315-323 (1999)   |                                     |                        |                       |
|                          | C27         | Li et al. <i>Proc. Natl. Acad. Sci. USA</i> , 96:2746-2751 (1999)   |                                     |                        |                       |
|                          | C28         | Marshall et al. <i>Nat. Struct. Biol.</i> , 6(11):992-994 (1999)  |                                     |                        |                       |
|                          | C29         | Paborsky et al. <i>J. Biol. Chem.</i> , 268(28):20808-20811 (1993)  |                                     |                        |                       |
|                          | C30         | Padilla et al. <i>Nucl. Acids Res.</i> , 30(24):e138 (2002)   |                                     |                        |                       |
|                          | C31         | Potyralo et al. <i>Anal. Chem.</i> , 70:3419-3425 (1998)  |                                     |                        |                       |
|                          | C32         | Robertson et al. <i>Nucl. Acids Res.</i> , 28(8):1751-1759 (2000)   |                                     |                        |                       |
|                          | C33         | Robertson et al. <i>Nat. Biotech.</i> , 17:62-66 (1999)   |                                     |                        |                       |
|                          | C34         | Robertson et al. <i>Nat. Biotech.</i> , 19:650-655 (2001)   |                                     |                        |                       |
|                          | C35         | Sassanfar et al. <i>Nature</i> , 364:550-553 (1993)   |                                     |                        |                       |
|                          | C36         | Seetharaman et al. <i>Nat. Biotech.</i> , 19:336-341 (2001)   |                                     |                        |                       |
|                          | C37         | Seiwert et al. <i>Chem. &amp; Biol.</i> , 7:833-843 (2000)  |                                     |                        |                       |
|                          | C38         | Shaw et al. <i>Pharmac. Res.</i> , 12(12):1937-1942 (1995)  |                                     |                        |                       |
|                          | C39         | Sood et al. <i>Nucl. Acids Res.</i> , 4(8):2757-2765 (1977)   |                                     |                        |                       |
|                          | C40         | Soukup et al. <i>Proc. Natl. Acad. Sci. USA</i> , 96:3584-3589 (1999)   |                                     |                        |                       |
|                          | C41         | Soukup et al. <i>RNA</i> , 5:1308-1325 (1999)   |                                     |                        |                       |
|                          | C42         | Soukup et al. <i>Structure</i> , 7(7):783-791 (1999)  |                                     |                        |                       |
|                          | C43         | Soukup et al. <i>Tren. Biotech.</i> , 17:469-476 (1999)   |                                     |                        |                       |
|                          | C44         | Soukup et al. in <i>Ribozyme Biochem. Biotech.</i> , Eaton Publishing, Chapter 8, pgs. 149-170, Krupp & Gaur, eds. (2000) |                                     |                        |                       |
|                          | C45         | Soukup et al. <i>RNA</i> , 7:524-536 (2001)   |                                     |                        |                       |
|                          | C46         | Soukup et al. <i>J. Mol. Biol.</i> , 298:623-632 (2000)   |                                     |                        |                       |
|                          | C47         | Sproat et al. <i>Nucl. Acids Res.</i> , 19(4):733-738 (1991)  |                                     |                        |                       |
|                          | C48         | Tang et al. <i>Chem. &amp; Biol.</i> , 4:453-459 (1997)   |                                     |                        |                       |
|                          | C49         | Tang et al. <i>Nucl. Acids Res.</i> , 26(18):4214-4221 (1998)   |                                     |                        |                       |
|                          | C50         | Tang et al. <i>RNA</i> , 3:914-925 (1997)   |                                     |                        |                       |
|                          | C51         | Tsiang et al. <i>J. Biol. Chem.</i> , 270(28):16854-16863 (1995)  |                                     |                        |                       |
|                          | C52         | Tucker et al. <i>Chromatography B</i> , 732:203-212 (1999)  |                                     |                        |                       |
|                          | C53         | Wang et al. <i>Biochem.</i> , 32:1899-1904 (1993)   |                                     |                        |                       |
| JF                       | C54         | International Search Report for PCT/US03/38733, mailed September 7, 2004  |                                     |                        |                       |

\* a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. \_\_\_\_\_, filed \_\_\_\_\_, and relied upon for an earlier filing date under 35 U.S.C. §120 (continuation, continuation-in-part, and divisional applications).

|                       |                   |                    |            |
|-----------------------|-------------------|--------------------|------------|
| Examiner<br>Signature | /Jeffrey Fredman/ | Date<br>Considered | 04/10/2006 |
|-----------------------|-------------------|--------------------|------------|

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Express Mail No.: EV 461507463 US  
Date of Deposit: March 29, 2006



Page 1 of 4  
Attorney Docket No.: 23239-544

Please type a plus sign (+) in this box



|  |                               |                        |
|--|-------------------------------|------------------------|
| <b>Modified Form 1449/PTO</b><br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(use as many sheets as necessary) | <b>Application Number</b>     | 10/729,581             |
|  | <b>Filing Date</b>            | December 3, 2003       |
|  | <b>First Named Inventor</b>   | Keefe et al.           |
|  | <b>Group Art Unit</b>         | 1645                   |
|  | <b>Examiner Name</b>          | Jeffrey Norman Fredman |
|  | <b>Attorney Docket Number</b> | 23239-544              |

| U.S. PATENT DOCUMENTS                |          |                                |                |                                     |       |           |                            |
|--------------------------------------|----------|--------------------------------|----------------|-------------------------------------|-------|-----------|----------------------------|
| Exam Initials                        | Cite No. | U.S. Patent Document No.       | Issue Date     | Name of Patentee(s) or Applicant(s) | Class | Sub Class | Filing Date If Appropriate |
| JF                                   | *A30     | 4,683,195                      | 07/28/87       | Mullis                              |       |           |                            |
|                                      | *A31     | 4,711,955                      | 12/08/87       | Ward et al.                         |       |           |                            |
|                                      | *A32     | 4,828,979                      | 05/09/89       | Klevan et al.                       |       |           |                            |
|                                      | *A33     | 4,935,363                      | 06/19/90       | Brown et al.                        |       |           |                            |
|                                      | *A34     | 4,959,309                      | 9/25/90        | Dattagupta et al.                   |       |           |                            |
|                                      | *A35     | 5,070,010                      | 12/03/91       | Hsu                                 |       |           |                            |
|                                      | *A36     | 5,338,671                      | 8/16/94        | Scalice et al.                      |       |           |                            |
|                                      | *A37     | 5,459,015                      | 10/17/95       | Janjic et al.                       |       |           |                            |
|                                      | *A38     | 5,476,766                      | 12/19/95       | Gold et al.                         |       |           |                            |
|                                      | *A39     | 5,496,938                      | 03/05/96       | Gold et al.                         |       |           |                            |
|                                      | *A40     | 5,503,978                      | 4/12/96        | Schneider et al.                    |       |           |                            |
|                                      | *A41     | 5,543,293                      | 08/06/96       | Gold et al.                         |       |           |                            |
|                                      | *A42     | 5,635,615                      | 06/03/97       | Allen et al.                        |       |           |                            |
|                                      | *A43     | 5,654,151                      | 08/05/97       | Allen et al.                        |       |           |                            |
|                                      | *A44     | 5,723,323                      | 03/03/98       | Kauffman et al.                     |       |           |                            |
|                                      | *A45     | 5,763,173                      | 06/09/98       | Gold et al.                         |       |           |                            |
|                                      | *A46     | 5,789,157                      | 08/04/98       | Jensen et al.                       |       |           |                            |
|                                      | *A47     | 5,849,546                      | 12/15/98       | Sousa et al.                        |       |           |                            |
|                                      | *A48     | 5,861,254                      | 1/19/99        | Schneider et al.                    |       |           |                            |
|                                      | *A49     | 6,013,443                      | 01/11/00       | Heilig et al.                       |       |           |                            |
|                                      | *A50     | 6,020,130                      | 02/01/00       | Gold et al.                         |       |           |                            |
|                                      | *A51     | 6,184,364                      | 02/06/01       | Pieken et al.                       |       |           |                            |
| ↓                                    | *A52     | 6,476,205                      | 11/05/02       | Buhr et al.                         |       |           |                            |
|                                      | *A53     | 6,528,640                      | 03/04/03       | Beigelman et al.                    |       |           |                            |
| JF                                   | *A54     | 6,649,751                      | 11/18/03       | Usman et al.                        |       |           |                            |
| U.S. PUBLISHED APPLICATION DOCUMENTS |          |                                |                |                                     |       |           |                            |
| Exam Initials                        | Cite No. | U.S. Published Application No. | Published Date | Name of Patentee(s) or Applicant(s) | Class | Sub Class | Filing Date If Appropriate |

Date of Deposit: March 29, 2006

Attorney Docket No.: 23239-544

| U.S. PATENT DOCUMENTS |          |                          |            |                                     |       |           |                            |
|-----------------------|----------|--------------------------|------------|-------------------------------------|-------|-----------|----------------------------|
| Exam Initials         | Cite No. | U.S. Patent Document No. | Issue Date | Name of Patentee(s) or Applicant(s) | Class | Sub Class | Filing Date If Appropriate |
|                       |          |                          |            |                                     |       |           |                            |

| FOREIGN PATENT DOCUMENTS |          |                       |                 |                                     |                     |                 |                |
|--------------------------|----------|-----------------------|-----------------|-------------------------------------|---------------------|-----------------|----------------|
| Exam Initials            | Cite No. | Foreign Patent Office | Document Number | Name of Patentee(s) or Applicant(s) | Date of Publication | Translation Yes | Translation No |
| JF                       | B10      | AU                    | AU-B-4758690    | Hornes et al.                       | 06/26/90            |                 |                |
|                          | B11      | EP                    | 0592035         | Scalice, E. et al.                  | 01/03/96            |                 |                |
|                          | B12      | UK                    | 2 183 661 A     | Ballivet, M. et al.                 | 06/10/87            |                 |                |
|                          | B13      | PCT                   | WO89/06694      | Kauffman, S.A. et al.               | 07/27/89            |                 |                |
|                          | B14      | PCT                   | WO91/14436      | Ecker, D.J. et al.                  | 10/03/91            |                 |                |
|                          | B15      | PCT                   | WO 91/19813     | Gold, L. et al.                     | 12/26/91            |                 |                |
|                          | B16      | PCT                   | WO92/05285      | Weintraub, H.M. et al.              | 04/02/92            |                 |                |
|                          | B17      | PCT                   | WO92/14842      | Toole, J. et al.                    | 09/03/92            |                 |                |
|                          | B18      | PCT                   | W092/14843      | Toole, J. et al.                    | 09/03/92            |                 |                |
| JF                       | B19      | PCT                   | WO 94/08050     | Gold et al.                         | 04/14/94            |                 |                |

| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS |          |   |
|---|----------|---|
| Exam Initials                                     | Cite No. | Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.  |
| JF  | C55      | Andrake (1988) Proc. Natl. Acad. Sci. USA 85:7942   |
|   | C56      | Briebe et al., (2000) Biochemistry 39:919-923   |
|   | C57      | Briebe et al., (2002) Biochemistry 41: 5144-5149  |
|   | C58      | Carey et al. (1983) Biochem. 22(11):2601  |
|   | C59      | Chen et al. (1994) Biochem. 33:8746-8756  |
|   | C60      | Cohen et al. (1969) Proc. Natl. Acad. Sci. USA 63:458   |
|   | C61      | Davis et al. (1996) Methods in Enzymology Vol. 267:18   |
|   | C62      | Debouck et al., (1996) Biology and Physiology of the Blood Brain Barrier, Couraud and Scherman eds., Chapter 23, pp. 143-146                                  |
|   | C63      | Ellington & Szostak (1990) Abstracts of papers presented at the 1990 meeting on RNA Processing, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, Pg. 84 |
|   | C64      | Fitzwater et al., (1996) Methods in Enzymology vol. 267:275-301   |
|   | C65      | Gath et al., (1996) Biology and Physiology of the Blood Brain Barrier, Couraud and Scherman eds., Chapter 23, pp. 153-158                                     |
|   | C66      | Green et al., (1995) Chemistry & Biology 2:683-695  |
|   | C67      | Joyce & Inoue (1989) Nucleic Acids Research 17:711  |
|   | C68      | Joyce (1989) "RNA: Catalysis, Splicing, Evolution". Marlene Belfort & David Shub, editors, Elsevier, Amsterdam  |
|   | C69      | Kacian et al. (1972) Proc. Natl. Acad. Sci. USA 69:3038   |
|   | C70      | Kadonaga et al. (1986) Proc. Natl. Acad. Sci. USA 83:5889   |
|   | C71      | Kellogg et al., (1994) BioTechniques 16:1134  |
|   | C72      | Kinzler & Vogelstein (1989) Nucleic Acids Research 17:3645  |
| JF  | C73      | Kinzler et al. (1990) Mol. Cell. Biol. 10:634   |

| OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS |          |   |
|---|----------|---|
| Exam Initials                                     | Cite No. | Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.  |
| JF  | C74      | Kramer et al. (1974) J. Mol. Biol. 89:719   |
|   | C75      | Lestienne et al. (1983) Biochimie. 65:49  |
|   | C76      | Levisohn & Spiegelman (1968) PNAS USA 60:866  |
|   | C77      | Levisohn & Spiegelman (1969) PNAS USA 63:805  |
|   | C78      | Ma and Ptashne (1987) Cell 51: 113  |
|   | C79      | Maniatis (1982) Molecular Cloning: a Laboratory Manual, Cold Spring Harbor, NY pg.118   |
|   | C80      | Maniatis et al. (1987) Science 236: 1237  |
|   | C81      | Miele et al. (1983) J. Mol. Biol. 171:281   |
|   | C82      | Milligan et al. (1993) J. Medicinal Chemistry 36:1923-1937  |
|   | C83      | Mills et al. (1967) Proc. Natl. Acad. Sci., USA 58:217  |
|   | C84      | Mills et al (1973) Science 180:916  |
|   | C85      | Min et al (1988) Nucleic Acids Res. 16:5075   |
|   | C86      | Muesing et al. (1985) Nature 313:450  |
|   | C87      | Oliphant & Struhl (1987) Methods in Enzymology 155:568  |
|   | C88      | Oliphant & Struhl (1988) Nucleic Acids Research, 16:7673  |
|   | C89      | Oliphant et al. (1986) Gene 44:177  |
|   | C90      | Oliphant et al. (1989) Mol. Cell. Biol. 9:2944  |
|   | C91      | Orgel (1979) Proc. R. Soc. Lon. B205:435  |
|   | C92      | Ou et al. (1988) Science 239:295  |
|   | C93      | Padilla et al., (1999) Nucleic Acids Research 27(6): 1561-1563  |
|   | C94      | Richardson et al., Biochemical Pharmacology (2000) 59:1045-1052   |
|   | C95      | Robertson & Joyce (1990) Nature 344:467   |
|   | C96      | Romaniuk et al. (1987) Biochem. 26(6):1563  |
|   | C97      | Saffhill et al. (1970) J. Mol. Biol. 51 :531  |
|   | C98      | Sambrook et al. (1989) Molecular Cloning: A Laboratory Manual, Cold Spring Harbor, NY, Section 8.9-8.10   |
|   | C99      | Singleton et al., Dictionary of Microbiol. & Molec. Biol., Wiley & Sons, New York, NY, 2nd ed. p. 493   |
|   | C100     | Smith, D. "Magnesium as the Catalytic Center of RNA Enzymes." <u>The Biological Chemistry of Magnesium</u> , Chapter 5, pp. 111-135.                    |
|   | C101     | Szostak, A Structure and Activity of Ribozymes, Redesigning the Molecules of Life, (SA Benner ed.) Springer-Verlag Berlin Heidelberg, pp. 87-113 (1988) |
|   | C102     | Tanchou et al. (1994) Aids Research and Human Retroviruses 10:983   |
|   | C103     | Thiesen & Bach (1990) Nucleic Acids Research 18:3203  |
|   | C104     | Tuerk et al., (1990) Science 249:501-510  |
|   | C105     | Tuerk et al., (1992) Proc. Natl. Acad. Sci. 89:6988-6992  |
|   | C106     | Uhlenbeck et al. (1983) J. Biomolecular Structure and Dynamics 1 :539   |
| JF  | C107     | Watson et al (1987) Molecular Biology of the Gene. Benjamin/Cummings Publishing Co., Inc. California, pp. 267,295,323,361,394,396,397 and 405           |

Express Mail No.: EV 461507463 US

Date of Deposit: March 29, 2006

Page 4 of 4

Attorney Docket No.: 23239-544

| OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS |          |  |
|---|----------|--|
| Exam Initials                                     | Cite No. | Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc. |
| JF  | C108     | Yin et al., (2002) Science 298:1387-1395   |
|   |          |  |

\* By the waiver of 37 CFR 1.98(a)(2)(I) copies of the U.S. Patents A30-54 are not submitted.

|                    |                   |                 |            |
|--------------------|-------------------|-----------------|------------|
| Examiner Signature | /Jeffrey Fredman/ | Date Considered | 04/18/2006 |
|--------------------|-------------------|-----------------|------------|

EXAMINER: Initial if reference considered whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

TRA 2136758v.1